

United States Patent and Trademark Office

A

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS, P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,627	12/22/2005	Mu-Hyeon Choe	428.1060	6450
20311 LUCAS & ME	7590 01/29/2008 RCANTLLLP		EXAM	INER
475 PARK AVENUE SOUTH			KOSSON, ROSANNE	
15TH FLOOR NEW YORK, NY 10016			ART UNIT	PAPER NUMBER
		,	1652	
			MAIL DATE	DELIVERY MODE
			01/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•,		Application No.	Applicant(s)				
Office Action Summary		10/562,627	CHOE ET AL.				
		Examiner	Art Unit				
		Rosanne Kosson	1652				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status							
1)🖂	☑ Responsive to communication(s) filed on <u>11 January 2008</u> .						
2a) <u></u> ☐	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims						
4)🖂	4)⊠ Claim(s) <u>21-47</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
•	6) Claim(s) is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.						
8)⊠	Claim(s) <u>21-47</u> are subject to restriction and/or	election requirement.					
Application Papers							
9)	The specification is objected to by the Examine	•	•				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
•			•				
Attachment(s)							
	e of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P. 6) Other:					

10/562,627 Art Unit: 1652

DETAILED ACTION

Election/Restrictions

The response filed on January 11, 2008 has been received and entered. As the elected invention, Applicants have elected as the monomer the fusion protein of Group 1 and as the dimer a homodimer that is two units of the fusion protein of Group 1. It was clearly explained in the Office action of May 23, 2007 that the different dimers are <u>not</u> species; they are different inventions. Applicants have elected the linker of claim 21(iii)(a) as the species of linker in the elected invention.

Upon reconsideration of the claims, it has been determined that further restriction is required. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows. Claim 30 recites fusion proteins that have two different structures: 1) E–L–F or 2) F–L–E, in which E is an enzyme (the elected binding domain), L is the linker (the polypeptide having at least one free cysteine in the monomer, located adjacent to or up to 45 amino acids away from the enzyme) and F is the functional domain (an antibody containing at least the Fab portion). In the first protein, the enzyme is N-terminal, while, in the second protein, the antibody (or functional domain) is N-terminal.

Applicants are required, in reply to this action, to elect a single species- either 1) E–L–F or 2) F–L–E to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Application/Control Number:

10/562,627 Art Unit: 1652

Upon the allowance of a generic claim, applicants will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicants must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons. Each species is a different fusion protein, because each has a different structure and different chemical and biological properties, requiring a separate search for each.

Applicants are advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rosanne Kosson whose telephone number is 571-272-2923. The examiner can normally be reached on Monday-Friday, 8:30-6:00, alternate Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

Application/Control Number:

10/562,627 Art Unit: 1652 Page 4

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rosanne Kosson Examiner, Art Unit 1652

Rosume Kosson

rk/2008-01-18

ELIZABETH SLOBODY.
PRIMARY EXAMINED

ELIZABETH SLOBODYANSKY, PH.D PRIMARY EXAMINER